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From the INTERNATIONAL SEARCHING AUTHORITY.	PCI
Attn. Kingwell, Brian	NOTIFICATION OF TRANSMITTAL OF EDUCAL ST. THE INTERNATIONAL SEARCH REPORT , 8.0 OR THE DECLARATION
650 W. Georgia Street P.O. Box 11560 Vancouver, BC V6B 4N8 CANADA	(PCT Rulė 44.1)
info to be friend	Date of mailing (day/month/year) 20/01/2004
Applicant's or agent's file reference 81601-31	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/CA 03/00850	International filing date (day/month/year) 05/06/2003
Applicant HER MAJESTY IN RIGHT OF CANADA AS REPRES	SENTED
and statement under Article 19:	ch Report has been established and is transmitted herewith.
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the clai	
When? The time limit for filing such amendments is norm International Search Report; however, for more of	details, see the notes of the accompanying soot.
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.3	on Amend-Art 19  May 20/04  May 19/04
For more detailed instructions, see the notes on the acc	companying sheet. 1999

With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

The applicant is hereby notified that no International Search Report will be established and that the declaration under

no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Further action(s): The applicant is reminded of the following:

Article 17(2)(a) to that effect is transmitted herewith.

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, of the priority claim, must reach the International Bureau as provided in Rules 90 bis. 1 and 90 bis. 3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

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Authorized officer

Stefanie B}chler

Form PCT/ISA/220 (July 1998)

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

## INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- the claim is cancelled;
- the claim is new;
- (iv) the claim replaces one or more claims as filed;
- the claim is the result of the division of a claim as filed.

#### The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]: Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added.
- [Where originally there were 15 claims and after amendment of all claims there are 11]: Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding 'Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or new claims]: \*Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged.
- [Where various kinds of amendments are made]: Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added.

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

## It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

## Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

## Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.



No file refere	nce FOR FURTHER see Notification	on of Transmittal of International Search Report SA/220) as well as, where applicable, item 5 below.
oplicant's or agent's file refere	ACTION	
1601-31	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
ternational application No.		05/06/2002
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MATESTY IN RIG	HT OF CANADA AS REPRESENTED	
	port has been prepared by this International Searching	Authority and is transmitted to the applicant
This International Search Re	port has been prepared by this international Bureau.  by is being transmitted to the International Bureau.	
according to 7 master 1	ef its september	
This International Search Re	eport consists of a total of sheets.	in this report.
It is also acc	eport consists of a total of companied by a copy of each pnor art document cited i	III UIIS TOPOTA
1. Basis of the report	anguage, the international search was carried out on t t was filed, unless otherwise indicated under this item.	he basis of the international application in the
a. With regard to the la	anguage, the international search was carried out on t was filed, unless otherwise indicated under this item.	
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Authority (F	nucleotide and/or amino acid sequence disclosed in	n the international application, the international search
b. With regard to any was carried out on	the basis of the sequence listing:	
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X fumished	subsequently to this Authority in computer readble form	listing does not go beyond the disclosure in the
=	and that the subsequently furnished written sequence	iisting door in to
X the staten	nent that the information recorded in computer readable	e form is identical to the written sequence listing has been
furnished		
	lairns were found unsearchable (See Box I).	
· -	invention is lacking (see Box II).	
3. X Unity of i	Invention is facility (600 = 1	
4. With regard to the titl	s approved as submitted by the applicant.	,
x the text is	s approved as submitted by this Authority to read as follown as been established by this Authority to read as follow	vs:
the text	las Deen established by the state of	
	•	
5. With regard to the a	ostract,	
x the text	is approved as submitted by the applicant.  has been established, according to Rule 38.2(b), by th  ne month from the date of mailing of this international s	is Authority as it appears in Box III. The applicant may, search report, submit comments to this Authority.
G. The figure of the dri	awings to be published with the abstract is Figure No.	None of the figures.
v as sugg	sested by the applicant.	10000 00 000
X as sugg	e the applicant failed to suggest a figure.	
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Form PCT/ISA/210 (first sheet) (July 1998)

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Observations where certain claims w	were found unsearchable (Continuation of item 1 of first sheet)
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Claims Nos.:	equired to be searched by this Authority, namely:  O are (inter alia) directed to a method of treatmen the search has been carried out and based on the
Claims Nos.: because they relate to parts of the International an extent that no meaningful International	tional Application that do not comply with the prescribed requirements to such Search can be carried out, specifically:
Claims Nos.: because they are dependent claims and a	are not drafted in accordance with the second and third sentences of Rule 6.4(a).
diana where unity of inver	ntion is lacking (Continuation of item 2 of first sheet)
X II Observations where any count multi	iple inventions in this international application, as follows:
s International Searching Authority loans main	•
see additional sheet	
As all required additional search fees w searchable claims.	vere timely paid by the applicant, this International Search Report covers all
As all searchable claims could be searchable of any additional fee.	ched without effort justifying an additional fee, this Authority did not invite payment
As only some of the required additional covers only those claims for which fee	al search fees were timely paid by the applicant, this International Search Report is were pald, specifically claims Nos.:
4. No required additional search fees we restricted to the invention first mention $1-6$ , $8-23$	ere timely paid by the applicant. Consequently, this International Search Report is ned in the claims; it is covered by claims Nos.:
Remark on Protest	The additional search fees were accompanied by the applicant's protest  No protest accompanied the payment of additional search fees.
	page 1

# FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6,8-23

method of modifying a target nucleic acid within a genome of a host involving a reverse transcriptase, gene targeting constructs for said method, vectors, hosts

2. claim: 7

reverse transcriptase having a nuclear localization signal sequence

pplication No internati PCT/CA-03/00850

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N15/90 C12N9/12

C12N15/11

C12N15/79

A61K48/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols)

C12N IPC 7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, MEDLINE, BIOSIS

D. DOCUM	ENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	
X	DATTA H J ET AL: "Intracellular generation of single-stranded DNA for chromosomal triplex formation and induced recombination."  NUCLEIC ACIDS RESEARCH. ENGLAND 15 DEC 2001, vol. 29, no. 24, 15 December 2001 (2001-12-15), pages 5140-5147, XP002253387  ISSN: 1362-4962 page 5140, right-hand column, paragraph 3; figures 1,3 page 5141, left-hand column, paragraph 1 page 5144, right-hand column, last	1-5,22,
Υ	page 5144, right-hand column, paragraph - page 5146, right-hand column, paragraph 1 the whole document	6,8-21
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<b>∇</b> Furt	ther documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
Special Carlot Art documents on the carlot of the car	alegories of cited documents:  nent defining the general stale of the art which is not idered to be of particular relevance.  document but published on or after the international date entent which may throw doubts on priority claim(s) or his cited to establish the publication date of another on or other special reason (as specified) ment referring to an oral disclosure, use, exhibition or means.	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Dale of th	than the priority date claimed e actual completion of the international search	Date of mailing of the international search report  2 0. 01. 04
1	10 September 2003	Authorized officer
Name an	d mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Rutz, B

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Glegory* Ctation of document. with indication.where appropriate, of the relevant passages  Y J-R MAO ET AL: "Gene regulation by antisense DNA produced in vivo" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTR, BALTIMORE, MD, US, vol. 270, no. 34, 25 August 1995 (1995–08–25), pages 19684–19687, PRO02132578  ISSN: 0021-9258  page 19686, right-hand column, last paragraph - page 19687, left-hand column, paragraph 1; figure 1  Y MIROCHNITCHENKO O ET AL: "Production of single-stranded DNA in mammalian cells by means of a bacterial retron" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTRY, BALTIMORE, MD, US, vol. 269, no. 4, 28 January 1994 (1994–01–28), pages 2380-2383, XPO02132577  ISSN: 0021-9258  page 2382, right-hand column, line 27 - line 31  A RUSSELL D W ET AL: "Human gene targeting by viral vectors." NATURE GENETICS. UNITED STATES APR 1998, vol. 18, no. 4, April 1998 (1998–04), pages 325–330, XPO01105541  ISSN: 1061-4036  page 328, left-hand column, paragraph 2 - page 329, left-hand column, last paragraph; figure 2	003/ 00000	PCT/ 03/00850	
Y  J-R MAO ET AL: "Gene regulation by antisense DNA produced in vivo" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 270, no. 34, 25 August 1995 (1995-08-25), pages 19684-19687, XPO02132578 ISSN: 0021-9258 page 19686, right-hand column, last paragraph - page 19687, left-hand column, paragraph 1; figure 1  Y  MIROCHNITCHENKO O ET AL: "Production of single-stranded DNA in mammalian cells by means of a bacterial retron" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTRY, BALTIMORE, MD, US, vol. 269, no. 4, 28 January 1994 (1994-01-28), pages 2380-2383, XPO02132577 ISSN: 0021-9258 page 2382, right-hand column, line 27 - line 31  A  RUSSELL D W ET AL: "Human gene targeting by viral vectors." NATURE GENETICS. UNITED STATES APR 1998, vol. 18, no. 4, April 1998 (1998-04), pages 328, right-hand column, paragraph 2 - page 329, left-hand column, last paragraph; figure 2	Relevant to claim No.	NOT POCLIMENTS CONSIDERED TO BE RELEVANT	
J-R MAO ET AL: "Gene regulation by antisense DNA produced in vivo" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 270, no. 34, 25 August 1995 (1995-08-25), pages 19684-19687, XP002132578 ISSN: 0021-9258 page 19686, right-hand column, last paragraph - page 19687, left-hand column, paragraph 1; figure 1  MIROCHNITCHENKO O ET AL: "Production of single-stranded DNA in mammalian cells by means of a bacterial retron" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 269, no. 4, 28 January 1994 (1994-01-28), pages 2380-2383, XP002132577 ISSN: 0021-9258 page 2382, right-hand column, line 27 - line 31  A RUSSELL D W ET AL: "Human gene targeting by viral vectors." NATURE GENETICS. UNITED STATES APR 1998, vol. 18, no. 4, April 1998 (1998-04), pages 325-330, XP001105541 ISSN: 1061-4036 page 328, right-hand column, paragraph 2 - page 329, left-hand column, last paragraph; figure 2	Holosania	Citation of document, with indication, where appropriate, of the relevant passages	
vol. 270, no. 34, 25 August 1995 (1995-08-25), pages 19684-19687, XP002132578 ISSN: 0021-9258 page 19686, right-hand column, last paragraph - page 19687, left-hand column, paragraph 1; figure 1	6,8,9,	J-R MAO ET AL: "Gene regulation by antisense DNA produced in vivo" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE,	
JOURNAL OF BIOLOGICAL CHEMISTS, BALTIMORE, SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 269, no. 4, 28 January 1994 (1994-01-28), pages 2380-2383, XP002132577 ISSN: 0021-9258 page 2382, right-hand column, line 27 - line 31   RUSSELL D W ET AL: "Human gene targeting by viral vectors." NATURE GENETICS. UNITED STATES APR 1998, vol. 18, no. 4, April 1998 (1998-04), pages 325-330, XP001105541 ISSN: 1061-4036 page 328, right-hand column, paragraph 2 - page 329, left-hand column, last paragraph; figure 2	10	vol. 270, no. 34, 25 August 1995 (1995-08-25), pages 19684-19687, XP002132578 ISSN: 0021-9258 page 19686, right-hand column, last paragraph - page 19687, left-hand column, paragraph 1; figure 1  MIROCHNITCHENKO 0 ET AL: "Production of single-stranded DNA in mammalian cells by	Y
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The wive production of a		by viral vectors.  NATURE GENETICS. UNITED STATES APR 1998, vol. 18, no. 4, April 1998 (1998-04), pages 325-330, XP001105541 ISSN: 1061-4036 page 328, right-hand column, paragraph 2 - page 329, left-hand column, last paragraph; figure 2	A
MIYATA S ET AL: "In VIVO productions stable single-stranded cDNA in Saccharomyces cerevisiae by means of a bacterial retron." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. UNITED STATES 1 JUL 1992, vol. 89, no. 13, 1 July 1992 (1992-07-01), pages 5735-5739, XP002253389 ISSN: 0027-8424 the whole document	1-23	MIYATA S ET AL: "In vivo production of a stable single-stranded cDNA in Saccharomyces cerevisiae by means of a bacterial retron." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. UNITED STATES 1 JUL 1992, vol. 89, no. 13, 1 July 1992 (1992-07-01), pages 5735-5739, XP002253389	A
A EP 0 532 380 A (UNIV NEW JERSEY MED) 17 March 1993 (1993-03-17) page 9, line 20 - line 26; figure 10; example 1  -/	1-23	EP 0 532 380 A (UNIV NEW JERSEY MED) 17 March 1993 (1993-03-17) page 9, line 20 - line 26; figure 10; example 1	A
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PCT Application No

		PCT 03,	/00850
	tion) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
1	INOUYE M ET AL: "In vivo production of oligodeoxyribonucleotides of specific sequences: application to antisense DNA." CIBA FOUNDATION SYMPOSIUM. NETHERLANDS 1997, vol. 209, 1997, pages 224-233; discussion 233 - 234, XP001154200 ISSN: 0300-5208		
А	FUJIOKA K ET AL: "Targeted recombination with single-stranded DNA vectors in mammalian cells." NUCLEIC ACIDS RESEARCH. ENGLAND 11 FEB 1993, vol. 21, no. 3, 11 February 1993 (1993-02-11), pages 407-412, XP001155003 ISSN: 0305-1048		
P,A	KREN BETSY T ET AL: "The application of DNA repair vectors to gene therapy." CURRENT OPINION IN BIOTECHNOLOGY, vol. 13, no. 5, October 2002 (2002-10), pages 473-481, XP002253393 ISSN: 0958-1669 the whole document		1-23
P,A	TAUBES GARY: "Gene therapy. The strange case of chimeraplasty." SCIENCE. UNITED STATES 13 DEC 2002, vol. 298, no. 5601, 13 December 2002 (2002-12-13), pages 2116-2120, XP002253394 ISSN: 1095-9203 the whole document		1-23

on patent family members

Internat	Application No	
PCT/6	03/00850	

Patent document cited in search report Publication date Patent family member(s)  EP 0532380 A 17-03-1993 US 543614 CA 207551 DE 6922809 DE 6922809 EP 053238	FC1/0# 03/00000
EP 0532380 A 17-03-1993 US 543614 CA 207551 DE 6922809 DE 6922809 EP 053238	Publication date
JP 314020 JP 62177 US 58495 US 20020488 US 54340	15 A1 01-03-1993 98 D1 18-02-1999 98 T2 01-07-1999 80 A2 17-03-1993 06 B2 05-03-2001 76 A 09-08-1994 63 A 15-12-1998 02 A1 25-04-2002